

DIGITAL BEACON ASYMMETRY AND QUANTIZATION COMPENSATION

ABSTRACT OF THE DISCLOSURE

A method, apparatus for reducing errors in a plurality of beacon beams is disclosed. The method comprises the steps of computing quantized channel weights \tilde{W}_c from channel weights W_c for at least some of the channels; estimating the quantization error ΔB_a for each of the beacon beams from a difference between the channel weights W_c and the computed quantized channel weights \tilde{W}_c ; and adding the estimated quantization error ΔB_a to the beacon beams. Similarly, a beacon biases equivalent to the beacon asymmetry error can be computed by the ground beacon beam forming software and uploaded to the on-board software for error compensation. The apparatus comprises one or more means, such as a processor communicatively coupled to a memory storing instructions for performing these operations.

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